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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,631	07/28/2003	Marc Achen	28967/5680D	3314
4743 MARSHALL	7590 10/31/2007 GERSTEIN & BORUN LL	Þ	EXAMINER	
233 S. WACKER DRIVE, SUITE 6300			HUYNH, PHUONG N	
SEARS TOWI CHICAGO, IL			ART UNIT	PAPER NUMBER
•		,	1644	
			MAIL DATE	DELIVERY MODE
			10/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/627,631	ACHEN ET AL.		
		Examiner	Art Unit		
		Phuong Huynh	1644		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status	•				
1)⊠	Responsive to communication(s) filed on <u>04 Se</u>	eptember 2007.			
2a)⊠	This action is FINAL . 2b) ☐ This action is non-final.				
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.		
Dispositi	on of Claims				
5)□ 6)⊠ 7)□	Claim(s) 9-13,41 and 45-47 is/are pending in the 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 9-13, 41 and 45-47 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.			
Applicati	on Papers				
9) 10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Examiner	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
12) a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive i (PCT Rule 17.2(a)).	on No ed in this National Stage		
Attachmen	t(s)				
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

Application/Control Number: 10/627,631

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DETAILED ACTION

- 1. Claims 9-13, 41 and 45-47 are pending.
 - 2. The following new grounds of rejections are necessitated by the amendment filed 9/4/07.
 - The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
 - 4. Claims 9-13, 41 and 45-47 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 45 is indefinite because the metes and bounds of what would constitute the "size" of unprocessed VEGF-D in the sample cannot be determined.

Further, Claim 45 is incomplete for missing step for contacting the sample with an antibody that binds to the unprocessed full-length VEGF-D polypeptide. The remaining claims are rejected for depending from said rejected claim 45.

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office Action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 9-13, 41 and 45-47 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 99/33485 publication (of record, published July 8, 1999, PTO 1449).

The WO 99/33485 publication teaches a method for diagnosing neoplastic disease such as human malignant melanoma as an indicator of future metastatic risk. The reference method steps comprise: obtaining a sample such as a biopsy tissue specimen from human patient with melanoma (See page 20, lines 1-10, page 32 at line 18, in particular), exposing the biopsy specimen to a composition comprising an antibody such as monoclonal antibody 4A5 (later renamed as VD1 as evidenced in page 48 of instant specification that bind specifically to unprocessed (full-length) VEGF-D) for immunohistochemistry analysis (See page 32, lines 18-

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19, in particular), measuring the presence or increase (amount) in the VEGF-D expression in or around a potential neoplastic growth (See pages page 20, lines 1-10, pages 33-35, Figs 7A-E, claims 28-30, in particular). The reference teaches VEGF-D monoclonal antibodies detected VEGF-D in melanoma cells in both clinical samples, and the detection of VEGF-D indicates these tumor cells are most likely producing said VEGF-D (See page 35, lines 13-15, in particular). The recitation of measuring the size of the VEGF-D polypeptide is inherently to the reference antibody since the reference antibody 4A5 binds to the unprocessed VEGF-D or fulllength (VEGF-D) in the sample. Further, as evidenced at pages 48-49 of instant application, the antibody used by applicant to detect the "size" of VEGF-D in formalin fixed and paraffin embedded tissue section (immunohistochemistry) is the same antibody used for immunohistochemistry as that of the WO 99/33485 publication. The reference antibody includes a detectable label such as Streptavidin-alkaline phosphatase, enzyme labels such as horseradish peroxidase, or fluorimetric labels such as fluorescein-5-isothiocyanate (FITC) (see pages 20, 33, claim 30 of the WO 99/33485, in particular). The increase amount of VEGF-D is evidenced by the more pronounced staining in small islands of tumor cells at the periphery of the invasive portion of the tumor, which correlates with increased tumor growth or metastatic risk (see page 34, lines 8-15, Figure 7A-B, in particular). Claim 47 is included in this rejection because the reference teaches VEGF-D is stained positively in the cytoplasm of the endothelial cells in the tumor section (see page 34, line 18-20, Figure 7C, page 35, line 15-21, in particular). Claim 41 is included in this rejection because the WO 99/33485 publication teaches breast cancer associated with lymph node metastasis and obstruction; increasing amount of the VEGF-D induces lymphangiogenesis (see page 17, line 11-17, in particular).

- 7. No claim is allowed.
- 8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Huynh, Ph.D. whose telephone number is (571) 272-0846. The examiner can normally be reached Monday through Thursday from 9:00 a.m. to 6:30 p.m. and alternate Friday from 9:00 a.m. to 5:30 p.m. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (571) 272-0841. The IFW official Fax number is (571) 273-8300.
- 10. Any information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuong N. Huynh, Ph.D.
Patent Examiner
Technology Center 1600
October 26, 2007

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600